

## **DETAILED ACTION**

### ***Status of Claims***

Claims 1-11 remain for examination.

### ***Claim Rejections - 35 USC § 103***

The rejection of claims 1-3, 6-7, 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over U. S. Patent No. 6,617,409 to Yukawa et al., in view of U. S. Patent No. 4,931,505 to Miyazaki et al. as generally set forth in the previous office action mailed 07/08/2009 stands.

The rejection of claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over combined teaching of U. S. Patent No. 6,617,409 to Yukawa et al. and U. S. Patent No. 4,931,505 to Miyazaki et al., further in view of U. S. Patent No. 6,489,396 B2 to Nakamura et al. as generally set forth in the previous office action mailed 07/08/2009 stands.

The rejection of claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over combined teaching of U. S. Patent No. 6,617,409 to Yukawa et al. and U. S. Patent No. 4,931,505 to Miyazaki et al., further in view of U. S. Patent No. 5,216,081 to Mohri et al. as generally set forth in the previous office action mailed 07/08/2009 stands.

The rejection of claim 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over combined teaching of U. S. Patent No. 6,617,409 to Yukawa et al. and U. S. Patent No. 4,931,505 to Miyazaki et al., further in view of U. S. Patent No. 1,941,398 to Iliff et al. as generally set forth in the previous office action mailed 07/08/2009 stands.

The text of those sections of title 35 US Code not included in this action can be found in the prior Office Action.

### ***Response to Arguments***

Applicant's arguments filed 10/08/2009 have been fully considered but they are not persuasive.

The applicant argues that "in Col. 6, line 67 to Col. 7, line 5, the Miyazaki reference discloses the function of its copolymer (B). Thus, the Miyazaki reference states that it is considered that when the coating layer is in a dried state, it presents a water repellant surface by virtue of the polyfluorocarbon chain, but when exposed with a large amount of water, the polyfluorocarbon chain withdraws from the surface and the hydrophilic groups transfer to the surface, whereby the surface becomes hydrophilic. Therefore, in the copolymer (B) of the Miyazaki reference, as the "hydrophilic group" or the "polyfluorocarbon chain" reversibly transfers to or withdraws from the surface of the coating layer, in accordance with the environment, it appears that the copolymer (B) of the Miyazaki reference is present in such a state that it is not absorbed to other

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substances". The Examiner respectfully submits that Miyazaki disclose the above property of their invention after the coating is formed on a substrate. Furthermore, Miyazaki discloses in col. 6, line 32-36 that the composition of their invention is applied to the metal surface.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHUANGYI ABU ALI whose telephone number is (571)272-6453. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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